

Claims

1. A disk holding apparatus comprising a turn table for mounting a disk and a disk hole inserting portion provided at a center portion of the turn table for being inserted into a  
5 center hole of the disk;

wherein the disk hole inserting portion is provided at the turn table in a state of being able to move up and down relative to a face of the turn table for mounting the disk.

10 2. The disk holding apparatus according to Claim 1, further comprising:

rotation driving means for rotating the turn table;

wherein the disk hole inserting portion is inwardly inserted with converting means for converting a rotational  
15 force from the rotation driving means to a force of moving up and down the disk hole inserting portion. . . . .

3. The disk holding apparatus according to Claim 2, wherein the converting means includes a screw member for screwing a  
20 side of the driving means and a side of the disk hole inserting portion.

4. The disk holding apparatus according to Claim 2 or 3, wherein the converting means comprises:

25 a female screw portion formed at a peripheral face of

an inner hole provided at the disk hole inserting portion;  
a male screw portion formed at an outer peripheral face  
of the screw member and screwed to the female screw portion;  
and

5           rotation stopping means for temporarily stopping an  
operation of rotating the turn table.

5.       The disk holding apparatus according to any one of Claims  
1 through 4, further comprising fixing means for fixing the  
10 disk on the turn table by being erected in accordance with an  
operation of moving up the disk hole inserting portion and  
releasing a state of fixing the disk by lying down at inside  
of the turn table in accordance with an operation of moving  
down the disk hole inserting portion.

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6. . . A disk changer apparatus comprising:  
a plurality of trays for containing disks;  
turn table transferring means for moving a turn table  
for mounting a disk at a lower portion of one tray of the  
20 plurality of trays; and  
the disk holding apparatus according to any one of Claims  
1 through 5.